Diamond Star Pattern

Given an integer **N**, print the following star diamond pattern. Print "pattern not possible" if pattern can not be printed.

```
Example:
Input: N = 3
Output:
Input: N = 1
Output:
Constraints :
1 <= N <= 20
C Code:
#include <stdio.h>
void erect_pyramid(int N)
{
 for (int i = 0; i < N; i++)
  {
    for (int j = 0; j < N - i - 1; j++)
    {
      printf(" ");
```

}

```
for (int j = 0; j < 2 * i + 1; j++)
       printf("*");
     }
    for (int j = 0; j < N - i - 1; j++)
     {
       printf(" ");
    }
     printf("\n");
  }
}
void inverted_pyramid(int N)
{
  for (int i = 0; i < N; i++)
  {
    for (int j = 0; j < i; j++)
     {
       printf(" ");
    for (int j = 0; j < 2 * N - (2 * i + 1); j++)
     {
       printf("*");
     }
     for (int j = 0; j < i; j++)
       printf(" ");
     }
```

```
printf("\n");
 }
}
int main()
{
 int N;
 scanf("%d", &N);
if(N<0){
       printf("pattern not possible");
}
  erect_pyramid(N);
 inverted_pyramid(N);
  return 0;
}
Testcases:
Testcase- 1:
Input: 'N' = 3
Output:
Testcase- 2:
Input: N = 1
Sample Output 2:
```

Testcase- 3: Input: N= 2 Output: *** *** Testcase- 4: Input: N= 5 Output: *** **** ***** ***** ***** ***** **** *** Testcase- 5: Input: N= 4 Output: *** **** ***** ***** **** *** Testcase- 6:

Input: N= -7

Testcase- 7:

Input: N= 0

Output: